. . . connecting your business

LANCOM 1821+ Wireless ADSL

Business VPN ADSL2+ router with WLAN for professional site connectivity

- Integrated ADSL2+ modem
- 108 Mbps WLAN, 802.11a/b/g standards
- 5 IPSec VPN channels integrated; optional: 25 simultaneous VPN channels and hardware VPN accelerator
- Stateful-inspection firewall with intrusion detection/denial-of-service protection
- 4 separable switch ports
- Load balancing with up to 4 WAN connections
- ISDN interface for remote access, remote maintenance and dial-backup
- USB 2.0 host port
- Secure WLAN from authentication with IEEE 802.1x/EAP with key rollover and WEP128/ WEP152, IEEE 802.11i and Multi-SSID
- Optional: SIP proxy and SIP gateway functions

LANCOM
Systems

The ADSL2+ WLAN router LANCOM 1821+ Wireless ADSL offers maximum flexibility for secure VPN interconnection of sites, branch offices or home offices.

Professionally secured and expandable VPN connections are its most basic functions. Offering convenient control and management of certificates, innovative routing functions which, for example, can completely separate private and business data traffic, as well as central management at no cost, LANCOM routers give administrators maximum efficiency in installation and management.

Meeting with the demands of modern office environments, the router supports the very latest WLAN security standards. The USB host port enables a connected printer to be operated centrally.

LANCOM Voice over IP options round out the solution with all of the IP telephony functions that users need in everyday business.

In combination with the Voice-over-IP telephone LANCOM VP-100 and the Ethernet switch LANCOM ES-1108P, the LANCOM 1821+ Wireless ADSL is a future-ready, integrated all-round solution for the home office.

More flexibility.

The integrated wireless module makes the LANCOM 1821+ Wireless ADSL also suitable for use as an access point or WLAN bridge. The support of WLAN standards IEEE 802.11a/b/g/h/i and the two dualband diversity antennas enable operation in the 2.4 or 5 GHz frequency bands. In both frequency bands, the turbo mode supports maximum data transfer rates of up to 108 Mbps.

More Security.

The integrated firewall with the latest security functions such as stateful inspection, Intrusion Detection and Denial-of-Service protection is supplemented by dynamic bandwidth management and comprehensive functions for backup, high-availability and redundancy. The integrated VPN gateway that fulfills the IPSec standard, and the optional hardware accelerator provide optimal security for connecting telecommuters and branch offices thanks to the high-security 3-DES or AES encryption and support of digital certificates.

LANCOM is setting the standards in area of WLAN security, too. A comprehensive range of security technologies is supported in wireless LAN including IEEE 802.11i, 802.1x, WPA, WEP64/128/152, ACL or LEPS (LANCOM Enhanced Passphrase Security), which enables the configuration of an optimized solution, whatever the individual requirements. For example, Multi SSID allows the definition of up to 8 user groups, each with its own level of security.

More Management.

The management systems LANconfig and LANmonitor are included and offer not only cost-effective remote maintenance of entire installations and highly convenient setup wizards, but also full real-time monitoring and logging. What's more, service providers benefit from the broad range of scripting methods and professional access with individual access rights for administrators via SSH, HTTPS, TFTP and ISDN dial-in. WLANmonitor visualizes the structures of the WLAN irrespective of physical location and facilitates the central surveillance of the entire wireless network.

More Benefits.

The versatile functions for address translation and routing allow completely different networks to be connected over common infrastructure. Existing networks at partner companies, home-office workstations or subsidiaries can be integrated into the VPN without problem. With the option of port separation and a separate address range, your own web servers can be securely separated from the LAN.

Optional SIP proxy and SIP gateway functions offer big savings through the use of existing data connections for voice transmission (VoIP telephony).

The integrated ISDN interface allows remote field installations, dial-up access and CAPI featured functions such as fax services for all connected PCs.

More Certainty for the Future.

From the very start, LANCOM products are designed for a product life of several years. They are equipped with hardware dimensioned for the future. Even reaching back to older product generations, updates to the LANCOM Operating System—LCOS—are available several times a year, free of charge and offering major features. LANCOM offers unbeatable protection of your investment!

What's more...

LANCOM Systems also offers suitable AirLancer client adapters—as USB, PC card and PCI versions—as well as AirLancer Extender antennas for indoor and outdoor use, even in the 5-GHz frequency range.

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Firewall	
Stateful inspection firewall	Direction-dependant check based on connection information
Packet filter	Check based on the header information of an IP packet (IP or MAC source/destination addresses; source/destination ports, DiffServ attribute); remote-site dependant, direction dependant, bandwidth dependant
Masquerading	Network Address Translation (NAT), N:N mapping for the translation or masking of IP addresses
Port mapping	Provision of services from behind masqueraded computers, for example, to make an internal web server available from the outside (inverse masquerading)
Tagging	The firewall marks packets with routing tags, e.g. for policy-based routing
Actions	Forward, drop, reject, block sender address, close destination port, disconnect
Messaging	Via e-mail, SYSLOG or SNMP trap
Quality of Service	
Traffic shaping	Dynamic bandwidth management with IP traffic shaping
Bandwidth reservation	Dynamic reservation of minimum and maximum bandwidths, absolute or connection-related, separate settings for send and receive directions
DiffServ/TOS	Priority packet queuing based on DiffServ/TOS fields
Packet-size control	Automatic packet-size control by fragmentation or Path Maximum Transmission Unit (PMTU) adjustment.
Layer 2/Layer 3 tagging	Automatic or fixed translation of layer-2 priority information (802.11p-marked Ethernet frames) to layer-3 DiffServ attributes in routing mode. Translation from layer 3 to layer 2 with automatic recognition of 802.1p-support in the destination device.
Security	
Intrusion Prevention	Monitoring and blockage of login attempts and port scans
IP spoofing	Source IP address check on all interfaces: The only accepted IP addresses belong to the previously defined IP network
Access control lists	Filtering of IP or MAC addresses and preset protocols for configuration access and LANCAPI
Denial of Service protection	Protection from fragmentation errors and SYN flooding
General	Detailed settings for handling reassembly, PING, stealth mode and AUTH port
URL blocker	Filtering of unwanted URLs based on DNS hitlists and wildcard filters
Password protection	Password-protected configuration access can be set for each interface
Alerts	Alerts via e-mail, SNMP-Traps and SYSLOG
Authentication mechanisms	PAP, CHAP and MS-CHAP as PPP authentication mechanism
Anti-theft	Anti-theft ISDN site verification over B or D channel (self-initiated call back and blocking)
WLAN protocol filters	Limitation of the allowed transfer protocols, source and target addresses on the WLAN interface
IP redirect	Fixed redirection of any packet received over the WLAN interface to a dedicated target address
High availability / redundancy	
VRRP	VRRP (Virtual Router Redundancy Protocol) for non-proprietary backup in case of failure of a device or remote station. Enables passive standby groups or reciprocal backup between multiple active devices including load balancing and freely definable backup priorities
FirmSafe	For completely safe software upgrades thanks to two stored firmware versions, incl. test mode for firmware updates
ISDN backup	In case of failure of the main connection, a backup connection is established over ISDN; automatic return to the main connection
Analog/GSM modem backup	Optional operation of an analog or GSM modem at the serial interface
Load balancing	Static and dynamic load balancing over up to 4 WAN connections; channel bundling with Multilink PPP (if supported by network operator)
VPN redundancy	Control of up to 16 redundant VPN gateways for high availability or load balancing
Line monitoring	Line monitoring with LCP echo monitoring, dead-peer detection and up to 4 addresses for end-to-end monitoring with ICMP polling.
VPN	
Number of VPN tunnels	5 IPSec connections active simultaneously, 25 connections configurable
Hardware accelerator (optional)	Activated 3DES/AES hardware encryption with the VPN 25 option
IKE	IPSec key exchange with Preshared Key or certificate
Certificates	X.509 digital certificate support, compatible with Microsoft Server / Enterprise Server and OpenSSL, upload of PKCS#12 files via HTTPS interface
Certificate revocation lists (CRL)	CRL retrieval via HTTP
RAS user template	Configuration of all VPN client connections in IKE ConfigMode via a single entry

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VPN	
Proadaptive VPN	Automated configuration and dynamic creation of all necessary VPN and routing entries based on a default entry for site-to-site connections. Propogation of dynamically learned routes via RIPv2, if required.
Algorithms	3DES (168 bit), AES (128, 192 or 256 bit), Blowfish (128 bit), RSA (128 or -448 bit) and CAST (128 bit); MD-5 or SHA-1 hashes
NAT-Traversal	NAT-Traversal (NAT-T) support for VPN over routes without VPN passthrough
IPCOMP	VPN data compression based on LZS or Deflate compression for higher IPSec throughput
LANCOM Dynamic VPN:	Enables VPN connections from or to dynamic IP addresses. The IP address is communicated via ISDN B- or D-channel or with the ICMP or UDP protocol in encrypted form. Dynamic dial-in for remote sites via connection template
Dynamic DNS (dynDNS)	Enables the registration of IP addresses with a dynDNS provider in the case that fixed IP addresses are not used for the VPN connection
Specific DNS forwarding	DNS forwarding according to DNS domain, e.g. internal names are translated by proprietary DSN servers in the VPN; external names are translated by Internet DNS servers.
VPN throughput (max.)*	
1364-byte packet size	24 Mbps
265-byte packet size	6 Mbps
Notice	* all VPN figures with AES encryption and active VPN hardware acceleration
Firewall throughput (max.)	
1470-byte packet size	72 Mbps
256-byte packet size	9 Mbps
VoIP	
VoIP (optional)	Extended VoIP support (only in combination with LANCOM VoIP options)
Call router	Central switching of all incoming and outgoing calls. Number translation by mapping, numeral replacement and number supplementation Configuration of line and route selection, entry of multiple alternative routes (line backup). Routing based on calling and called number, SIP domain and line. Manual routing by the user ("outside-line access codes"); routing with line-selection keys on telephones or telephone number prefixes; targeted routing for individual telephone numbers (e.g. emergency calls via local ISDN); separate routes for internal, local, long-distance or international calls; blocking of telephone numbers or blocks of telephone numbers; inclusion of local subscribers into the number range of an upstream SIP PBX; internal standard telephone number for undeliverable calls; supplement/remove line-related prefixes or switchboard numbers
SIP proxy	Management of local SIP users with optional automatic registration/authentication. Mapping of public SIP-provider accounts as telephone lines for shared use. Connection to up to four upstream SIP PBXs including line backup. SIP connections from/to internal subscribers, SIP providers and SIP PBXs with automatic login of SIP users at SIP providers/upstream SIP PBXs. Optional shared/individual password for authentication at an upstream SIP PBX. Automatic bandwidth management and automatic configuration of the firewall for SIP connections. Default DNS entry for the local SIP domains, service location (SRV) support
SIP gateway	Transparent conversion of ISDN telephone calls to SIP calls, and vice versa. Number translation between internal numbers and MSN/DDI (including telephone number blocks), plus automatic adaptation of calling numbers and called numbers
SIP trunk	Outgoing call switching and incoming call reception based on extension numbers to/from SIP PBXs/SIP providers (requires support of the SIP-DDI functions compliant with ITU-T Q.1912.5 at the central exchange) with just a single user account to register the switchboard number; mapping of entire SIP telephone number blocks
SIP link	Outgoing call switching and incoming call reception of any numbers to/from SIP PBXs/SIP providers (requires support of this function at the central exchange) with just a single user account to register the switchboard number; mapping of entire SIP telephone number blocks
SIP remote gateway	Local break-in/out of calls with any telephone number to/from upstream VoIP PBXs/SIP providers with telephone number mapping; independent of local users
Number of local subscribers	4 SIP (VoIP Basic Option), 32 SIP (VoIP Advanced Option)
Number of simultaneous connections	2 - 16 depending on code conversion, echo canceling and load
Signaling	VoIP: SIPv2, ISDN: DSS1 (Euro-ISDN), point-to-point/point-to-multipoint; 1TR6 (only at an external ISDN connector in TE mode)
Media protocols	RTP
ISDN features	Operation direct at ISDN exchange lines or at ISDN extension lines of existing PBXs. ISDN supplementary services CLIP, CLIR, en-block dial and individual dialing with adjustable wait-time until completion. ISDN-UDI calls with G.722 (not with VoIP Basic Option). Pass-through of service identifiers (BC, HLC, LLC) for ISDN-to-ISDN connections. PCM bit-transparent coupling. Support for keypad facilities. Advice of charge (AOC-D, AOC-E).
Audio properties	Echo canceling (G.168), automatic adaptive de-jitter buffer. Inband tone signaling compliant with EU standards and country-specific. DTMF support compliant with RFC 2976 (SIP info), RFC 2833 (RTP payload type/outband). Transparent pass-through for negotiated codecs. Interaction on codec negotiation between subscribers (filter, quality/bandwidth) Voice encoding with G.711 µ-law/A-law (64 kbps), G.726 (16, 24, 32, 40 kbps), G.722 high-quality codec (not with VoIP Basic Option), G.729 Annex A (not with VoIP Basic Option)
Auto QoS	Automatic dynamic bandwidth reservation per SIP connection. Automatic selection of compression method depending upon available bandwidth. Voice packet prioritization (CoS), DiffServ marking, traffic shaping (incoming/outgoing) and packet-size management of non-prioritized connections compared to VoIP
VoIP management	VoIP Setup Wizard in LANconfig; status display of subscribers, lines, and connections; logging of VoIP Call Manager events in LANmonitor. SYSLOG and TRACE for voice connections

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WLAN	
Frequency band 2.4 GHz or 5 GHz (EU compliance)	2400 - 2483.5 MHz (ISM) or 5150 - 5750 MHz or 5725-5825 MHz (UK only)
Transfer rates 2.4 GHz	54 Mbps to IEEE 802.11g (fallback to 48, 36 , 24, 18, 12, 9, 6 Mbps, Automatic Rate Selection) compatible to IEEE 802.11b (11, 5.5, 2, 1 Mbps, Automatic Rate Selection), 802.11 b/g compatibility mode or pure g or pure b, Super A/G with Turbo Mode (108 Mbps), bursting, compression
Transfer rates 5 GHz	54 Mbps to IEEE 802.11a/h (fallback to 48, 36 , 24, 18, 12, 9, 6 Mbps, Automatic Rate Selection), Super A/G with Turbo Mode (108 Mbps), bursting, compression, fully compatible with TPC (adjustable power output) and DFS (automatic channel selection, radar detection) according to ETSI regulations
Range *	Up to 150 m (up to 30 m in buildings) *
Maximum transmission power 2.4 GHz	802.11b: +19 dBm @ 1 and 2 Mbps, +19 dBm @ 5.5 and 11 Mbps
Maximum transmission power 2.4 GHz	802.11g: +19 dBm @ 6 Mbps, +14 dBm @ 54 Mbps
Maximum transmission power 5 GHz	802.11a/h: +18 dBm @ 6 Mbps, +12 dBm @ 54 Mbps with transmission power control (TPC) and manual power settings
Minimum transmission power	Transmission power reduction in software by 1 dB steps to min. 0.5 dBm
Reception sensitivity 2.4 GHz	802.11b: -87 dBm @ 11 Mbps, -94 dBm @ 1 Mbps
Reception sensitivity 2.4 GHz	802.11g: -87 dBm @ 6 Mbps, -70 dBm @ 54 Mbps
Reception sensitivity 5 GHz	802.11a/h: -87 dBm @ 6 Mbps, -67 dBm @ 54 Mbps
Radio channels 2.4 GHz	Up to 13 channels, max. 3 non-overlapping (2.4 GHz band)
Radio channels 5 GHz	Up to 19 non-overlapping channels (5 GHz band) with automatic dynamic channel selection (DFS)
Roaming	Seamless handover between radio cells, IAPP support, IEEE 802.11d support
WPA2 fast roaming	Pre-authentication and PMK caching for fast 802.1x authentication
Fast client roaming	With background scanning, mobile access points in client mode can switch to alternative access points which offer a better signal before the connection to the first access point fails
VLAN	Support of up to 4094 VLAN IDs for WLAN connections, 32 simultaneously usable
VLAN	Dynamic assignment of VLAN tags to 802.11x clients
Multi SSID	Simultaneous use of up to 8 independent WLAN networks per WLAN interface
Security	IEEE 802.11i / WPA2 with passphrase or 802.1x and hardware-accelerated AES, closed network, WEP64, WEP128, WEP152, user authentication, 802.1x /EAP
RADIUS server	Integrated RADIUS server for MAC address list management
Quality of Service	Prioritization according to Wireless Multimedia Extensions (WME, integral to IEEE 802.11e)
Bandwidth limitation	Each WLAN client (MAC address) can be assigned maximum transmit and receive rates and an individual VLAN ID
Background scanning	The detection of rogue access points and the channel properties is carried out almost unnoticeably for all WLAN channels during normal AP operation.
Client detection	Rogue WLAN client detection based on probe requests
802.1x supplicant	Authentication of an access point in WLAN client mode at another access point via 802.1X (EAP-TLS, EAP-TTLS and PEAP)
Notice	* The effective distance and transmission rate that can be achieved are depending of the given building conditions.
WLAN operating modes	
WLAN access point	Infrastructure mode
WLAN bridge	Point-to-multipoint connection of up to 7 Ethernet LANs (mixed operation optional), broken link detection, blind mode, up to 32 VLANs simultaneously for WLAN connections
WLAN client	Transparent WLAN client mode for wireless Ethernet extensions, e.g. connecting PCs or printers by Ethernet; up to 64 MAC addresses
Routing functions	
Router	IP, IPX and NetBIOS/IP multi-protocol router
HTTP	HTTP and HTTPS server for configuration by web interface
DNS	DNS client, DNS server, DNS relay, DNS proxy and dynamic DNS client
DHCP	DHCP client, DHCP relay and DHCP server with autodetection
NetBIOS	NetBIOS/IP proxy
NTP	NTP client and SNTP server, automatic adjustment for daylight-saving time
Policy-based routing	Policy-based routing based on routing tags. Based on firewall rules, certain data types are marked for specific routing, e.g. to particular remote sites or lines.
Dynamic routing	Dynamic routing with RIPv2. Learning and propagating routes; separate settings for LAN and WAN

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LAN protocols	
IP	ARP, proxy ARP, BOOTP, LANCAPI, DHCP, DNS, HTTP, HTTPS, IP, ICMP, NTP/SNTP, NetBIOS, PPPoE (server), RADIUS, RIP-1, RIP-2, RTP, SIP, SNMP, TCP, TFTP, UDP, VRRP
IPX	RIP, SAP, IPX and SPX watchdogs, NetBIOS watchdogs
WLAN protocols	
ADSL, Ethernet	PPPoE, PPPoA, IPoA, Multi-PPPoE, ML-PPP, PPTP (PAC or PNS) and plain Ethernet (with or without DHCP), RIP-1, RIP-2
ISDN	1TR6, DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/GSM/HSCSD, CAPI 2.0 via LANCAPI, Stac data compression
Interfaces	
WAN: ADSL	ADSL over ISDN compliant with ITU G.992.1 Annex B (compatible to Deutschen Telekom U-R2 connections) or ADSL over POTS compliant with ITU G.992.1 Annex A
WAN: ADSL2+	ADSL over ISDN compliant with ITU 992.3, ITU G.992.5 Annex B (ADSL2+) or ADSL over POTS compliant with ITU G992.3 and ITU G.992.5 Annex A (ADSL2+)
Ethernet ports	4 individual 10/100-Mbps Fast Ethernet ports; up to 3 ports can be switched as additional WAN ports with load balancing
- freely configurable	Each Ethernet port can be freely configured (LAN, DMZ, WAN, monitor port, off). LAN ports can be operated as a switch or separately. Additionally, external DSL modems or termination routers can be operated as a WAN port with load balancing and policy-based routing. DMZ ports can be operated with their own IP address range without NAT
ISDN	ISDN S0 bus
Serial interface	Serial configuration interface / COM port (8 pin Mini-DIN): 9,600 - 115,000 baud, suitable for optional connection of analog/GPRS modems
External antenna connectors	Two reverse SMA connectors for external LANCOM AirLancer Extender antennas or for antennas from other vendors. Please respect the restrictions which apply in your country when setting up an antenna system. For information about calculating the correct antenna setup, please refer to www.lancom-systems.com.
USB connector	
USB 2.0 printer port	USB 2.0 full-speed host port for connecting USB printers per RAW-IP and LPD; bi-directional data exchange is possible (max. 12 Mbps, not for active-bus fed devices)
Management	
LANconfig	Configuration program for Microsoft Windows, incl. convenient Setup Wizards. Optional group configuration, simultaneous remote configuration and management of multiple devices over ISDN dial-in or IP connection (HTTPS, HTTP, TFTP)
LANmonitor	Monitoring application for Microsoft Windows for (remote) surveillance and logging of the status of LANCOM devices and connections, incl. PING diagnosis
WLANmonitor	Monitoring application for Microsoft Windows for the visualization and monitoring of LANCOM WLAN installations, incl. Rogue AP and Rogue Client visualization
Webconfig	Integrated web server for the configuration of LANCOM devices via Internet browsers with HTTPS or HTTP
Access rights	Individual access and function rights for up to 16 administrators
User administration	RADIUS user administration for dial-in access (PPP/PPTP and ISDN CLIP)
Remote maintenance	Remote configuration with Telnet/SSL, SSH (with password or public key), browser (HTTP/HTTPS), TFTP or SNMP, firmware upload via HTTP/HTTPS or TFTP
ISDN remote maintenance	Remote maintenance over ISDN dial-in with calling-number check
Security	Access rights (read/Write) over WAN or (W)LAN can be set up separately (VPN only, Telnet/SSL, SSH, SNMP, HTTPS/HTTP), access control list
Scripting	Scripting function for batch-programming of all command-line parameters and for transferring (partial) configurations, irrespective of software versions and device types, incl. test mode for parameter changes
SNMP	SNMP management via SNMP V2, private MIB exportable by WEBconfig, MIB II
Timed control	Scheduled control of parameters and actions with CRON service
TFTP	TFTP client and server with variable file names (name, MAC/IP address, serial number)
Diagnosis	Extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, LANmonitor status display, internal logging buffer for SYSLOG and firewall events, monitor mode for Ethernet ports
Statistics	
Statistics	Extensive Ethernet, IP and DNS statistics; SYSLOG error counter
Accounting	Connection time, online time, transfer volumes per station. Snapshot function for regular read-out of values at the end of a billing period.
Export	Accounting information exportable via LANmonitor and SYSLOG
Hardware	
Power supply	12 V DC, external power adapter (230 V)

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Hardware	
Environment	Temperature range 5–40 °humidity 0–80 %; non-condensing
Housing	Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D)
Power consumption (max)	ca. 10 Watts
Declarations of conformity	
CE	EN 55022, EN 301 489-1, EN 301 489-17, EN 60950
2.4 GHz WLAN	ETS 300 328
5 GHz WLAN	EN 301 893
Notifications	Certifications notified in Germany, Belgium, Netherlands, Luxembourg, Austria, Switzerland, UK, Italy, Spain, France, Portugal, Czech Republic, Denmark, Malta
Package content	
Manual	Printed User Manual (DE, EN) and Quick Installation Guide (DE/EN/FR/ES/IT/PT/NL)
CD	CD with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation
Cable	Serial configuration cable, 1.5m
Cable	1 Ethernet cable, 3m
Cable	ADSL cable, 3m
Cable	ISDN cable, 3m
Antennas	Two 3 dBi dipole dualband antennas
Power supply unit	12 V DC, external power adapter (230 V)
Support	
Warranty	3 years, support via Hotline and Internet KnowledgeBase
Software updates	Regular free updates (LCOS operating system and management tools) via Internet
Options	
VPN	LANCOM VPN-25 Option (25 channels, 50 configurable, incl. activated VPN hardware accelerator), item no. 60083
Service	LANCOM Service Option (24h advance replacement within Germany, 4 year warranty, not for PoE Power Injector), item no. 61401
Public Spot	LANCOM Public Spot Option (authentication and accounting software for hotspots), item no. 60642
VoIP	LANCOM VoIP Basic Option (4 SIP users), item no. 61420
VoIP	LANCOM VoIP Advanced Option (32 SIP users), item no. 61421
Accessories	
External antenna	AirLancer Extender O-30 2.4 GHz outdoor antenna, item no. 60478
External antenna	AirLancer Extender O-70 2.4 GHz outdoor antenna, item no. 60469
External antenna	AirLancer Extender O-9a 5 GHz outdoor antenna, item no. 61220
External antenna	AirLancer Extender O-18a 5 GHz outdoor antenna, item no. 61210
External antenna	AirLancer Extender O-D80g 2.4 GHz polarization diversity outdoor sector antenna, item no. 61221
External antenna	AirLancer Extender O-D60a 5 GHz polarization diversity outdoor sector antenna, item no. 61222
External antenna	AirLancer Extender O-360ag dualband omnidirectional outdoor antenna, item no. 61223
External antenna	AirLancer Extender I-60ag dualband indoor sector antenna, item no. 61214
External antenna	AirLancer Extender I-180 omnidirectional 2.4 GHz indoor antenna, item no. 60914
External antenna	AirLancer Extender I-360 omnidirectional 2.4 GHz indoor antenna, item no. 00745
Antenna cable	AirLancer cable NJ-NP 3m antenna-cable extension, item no. 61230
Antenna cable	AirLancer cable NJ-NP 6m antenna-cable extension, item no. 61231
Antenna cable	AirLancer cable NJ-NP 9m antenna-cable extension, item no. 61232
Lightning Protection (antenna cable)	AirLancer Extender SA-5 lightning protection (2.4 and 5 GHz), item no. 61212
Lightning Protection (LAN cable)	AirLancer Extender SA-LAN lightning protection LAN cable, item no. 61213
Documentation	LANCOM LCOS Reference Manual (DE), item no. 61700
19" Rack Mount	19" rackmount adapter, item no. 61501
Modem Backup	LANCOM Modem Adapter Kit, item no. 61500
VPN Client Software	LANCOM Advanced VPN Client for Windows 2000, Windows XP, Windows 2003 Server, single license, item no. 61600

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Accessories	
VPN Client Software	LANCOM Advanced VPN Client for Windows 2000, Windows XP, Windows 2003 Server, 10 licenses, item no. 61601
VPN Client Software	LANCOM Advanced VPN Client for Windows 2000, Windows XP, Windows 2003 Server, 25 licenses, item no. 61602
VoIP Client Software	LANCOM Advanced VoIP Client for Windows 2000-XP, single license, item no. 61610
VoIP Client Software	LANCOM Advanced VoIP Client for Windows 2000-XP, 10 licenses, item no. 61611
Item numbers	
LANCOM 1821+ Wireless ADSL (Annex A)	61372
LANCOM 1821+ Wireless ADSL (Annex B)	61371
LANCOM 1821+ Wireless ADSL (Annex A) UK	61373

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